

User Manual

Model: 4QJY3.0-C



IMPORTANT SAFETY INSTRUCTIONS

Read these safety instructions entirely!

Failure to read these instructions may result in injury to user, other people within the area of the lift, or vehicles. We are not responsible for any injury or damage as a result of neglecting to carefully read and follow these instructions.

Always lock the lift in place before going under the vehicle. Never allow anyone to go under the lift when raising or lowering.

INSPECT your lift daily. Never operate if it malfunctions or if it has broken or damaged parts. Repairs should be made with original equipment parts.

ATTENTION! LOOK OUT!

Routine check of safety latch system is very important -the discovery of device failure before needed could save you from expensive property damage, lost production time, serious personal injury and even death.

Operating controls are designed to close when released. Do not block open or override them.

NEVER overload your lift. Manufacturer's rated capacity is shown on nameplate affixed to the lift. ALWAYS know the gross weight of vehicle.

NEVER use the lift to raise one end or one side of vehicle.

NEVER raise vehicle with anyone inside it. No one should be in the lift area during operation.

ALWAYS keep lift area free of obstructions, grease, oil, trash and other debris. Before lowering lift, be sure tool trays, stands, etc. are removed from under vehicle. Release locking devices before attempting to lower lift.

Adequate ventilation should be provided when working on internal combustion engines.

Use only manufacturer's recommended attachments.

KEEP HANDS AND FEET CLEAR. Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points.

GUARD AGAINST ELECTRIC SHOCK. This lift must be grounded while in use to protect the operator from electric shock. Never connect the green power cord wire to a live terminal. This is for ground only.

DANGER! The power unit used on this lift contains high voltage.

Disconnect power at the receptacle before performing any electrical repairs. Secure plug so that it cannot be accidentally plugged in during service.

WARNING! RISK OF EXPLOSION. This equipment has internal arcing or sparking parts which should not be exposed to flammable vapors. This machine should not be located in a recessed area or below floor level.

MAINTAIN WITH CARE. Keep lift clean for better and safe performance. Follow manual for proper lubrication and maintenance instructions. Keep control handles and/or buttons dry, clean and free from grease and oil.

STAY ALERT. Watch what you are doing. Use common sense. Be aware.

CHECK FOR DAMAGED PARTS. Check for alignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use lift if any component is broken or damaged.

NEVER remove safety related components from the lift. Do not use lift if safety related components are damaged or missing.

ALWAYS wear safety glasses. Every day eyeglasses only have impact resistant lenses. They are not safety glasses. **READ AND UNDERSTAND ALL SAFETY WARNINGS & PROCEDURES BEFORE OPERATING LIFT. POST THESE SAFETY TIPS WHERE THEY WILL BE A CONSTANT REMINDER TO YOUR LIFT OPERATOR. FOR INFORMATION SPECIFIC TO THE LIFT, ALWAYS REFER TO THE LIFT MANUFACTURER'S MANUAL.**

Improper installation can cause accelerated wear, resulting in catastrophic failure which may cause property damage and / or bodily injury. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this product. Read this installation manual in its entirety before attempting to install or operate the lift.

SELECTING SITE: Before installing your new lift, check the following.

OVERHEAD OBSTRUCTIONS: The area where the lift will be located should be free of overhead obstructions such as heaters, building supports, electrical lines etc.

FLOOR REQUIREMENTS: Visually inspect the site where the lift is to be installed and check for cracked or defective concrete. This lift must be installed on a solid level concrete floor with no more than 2 degrees of slope. A level floor is suggested for proper installation and level lifting. If a floor is of questionable slope, consider a survey of the site and/or the possibility of pouring a new level concrete slab. This lift is designed to be installed on a minimum of 180mm thick, 3500psi, steel reinforced concrete. Do not install this lift on asphalt, wood, or any other surface other than described. This lift is only as strong as the foundation on which it is installed.

DO NOT install this lift outdoors unless special consideration has been made to protect the power unit from weather conditions. **The Power unit is not water proof!!!**

DO NOT begin installation with lift close to wall. It is necessary to leave adequate clearance for installing safety linkage rods. Allow 1524mm for clearance. **(See Fig.1)**

NOTE The power unit can be placed in one of two locations, front left or rear right **(See Fig. 1)**

Unpacking: Unpack the lift close to the installation site. Review your packing list and assembly drawing to verify that you have all the parts. Layout a chalk line on the floor following the floorplan **(See Fig.1)**.

Stand the columns in place making sure to position the power unit mounting bracket at the correct location and the lock blocks facing outward.

TOOLS recommended

"Rotary Hammer Drill Or Similar (If Anchoring) "Medium Crescent Wrench

" $\phi 19$ " Masonry Bit (If Anchoring / Not required) "Medium Pipe Wrench

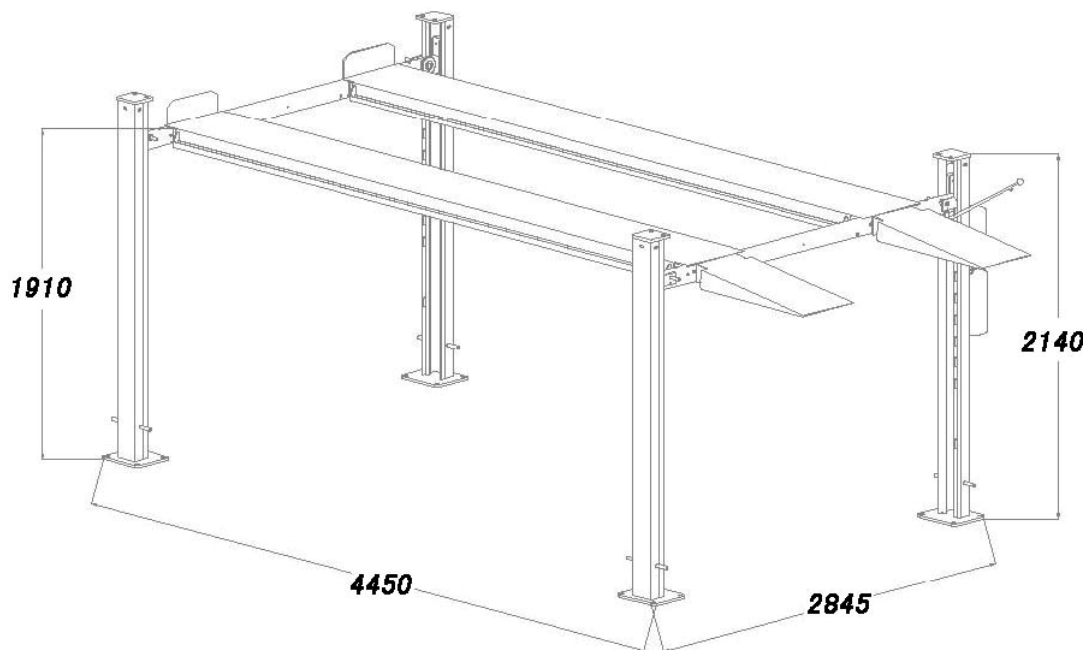
"Hammer "Crow Bar "

4 Foot Level "Chalk Line

"Open-End Wrench Set: 12-28 "Medium Flat Screwdriver

"Socket And Ratchet Set: 12 -28 "Tape Measure: 5m Minimum

"Hex-Key / Allen Wrench Set "Needle Nose Pliers

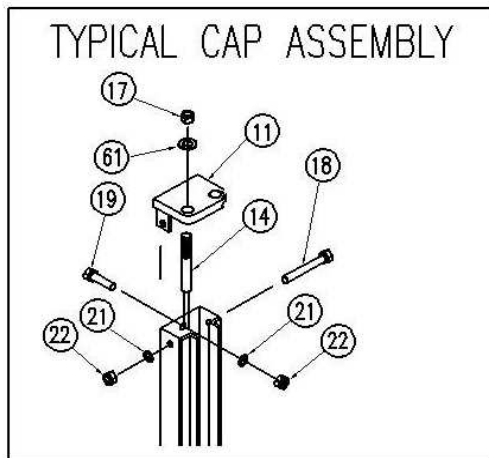


COLUMN & CROSSRAIL INSTALLATION Lay down rear columns. Position the crossrail at the top of the two columns. (both cross rails are the same) Install the crossrail in the column by sliding the plastic guide blocks into the column channel. The safety latch must be positioned with bevel side to the leg top, and safety latch facing towards the outside of the lift when you stand the columns back up. Manually open the safety latch device on each side of the crossrail and slide the crossrail down until it rests on the safety lock position closest to the floor. Repeat the procedure for the remaining columns and crossrail. Stand the assembled columns up in the positions indicated on the floor plan.

Track Installation

Start with the track with the cylinder. This track will be located with the hose connection facing out toward the leg with power unit bracket attached. **NOTE** The power unit can be located in two locations shown. With an assistant, pick up and place one end of the main side track on the crossrail, and then pick up and place the other end on the opposite crossrail (if you have three assistants, place both ends at the same time). Use a large screwdriver or aligning punch to align the mounting holes in the cross rails with the mounting holes in the track. **Do not leave the tracks unbolted – install the mounting bolts immediately!** Install **M12X100 mounting bolts and M12 washers** thru the ramp brackets and wheel stops. Make sure the bolt head is on the flat side of the bracket. Install the two ramp brackets and two wheel stop with bolts and washers as you secure the main side track to the cross rail. Secure the bolts with M12 washers and nuts placed **hand tight**. Now, install the offside track and again secure with ramp brackets, wheel stops with **M12X100 bolts and nuts**. After both tracks are installed, tighten all bolts M12X100 bolts -torque -60 N-M.

Find the leg caps (**4 each**), **M12X170 bolts (4 each)**, **M12X30 bolts (4 each)**, **M12 nuts (8 each)** and **M12 flat washers (16 each)**, holes for cable face towards the center of the lift. Secure the leg caps with **M12X30 bolts**. Place the bolts with washers in through channel and secure with washers and nuts on the outside of the leg. Install the **M12X170** bolts through the leg and top cap. Install from outside of the leg, and secure with a nut on the inside of the leg. Tighten the **M12X30 bolt**. Tighten the M12X170 bolt to a torque of 60N-M. Do not over tighten the **M12X170 bolt**, as this may warp the column channel and bind the guide blocks.



Insert the bolt end of the cable through the opening in the offside track, then run cable $\frac{1}{4}$ turn or 90 degrees around the pulley on the crossrail. Secure the bolt end to the leg top cap. Place washer and nut on threaded end hand tight.

Safety Latch Linkage Installation: Locate and identify the components needed to install the safety latch linkage rods. Install the spacers from on the straight threaded end of the **M12X1270 bent rod** and the threaded end of the **M12X3200 straight safety latch linkage rod**.

Install the **M12X1270 bent safety latch linkage rod** into the main side track adjacent to back end of the cylinder (opposite the cylinder rod). Safety latch linkage rod should pass through guide tubes on underside of track.

Install the **M12X3200 straight safety latch linkage rod** into the main side track from the opposite end. The rod should pass through two guides on the underside of the main side track.

Install the 90 fitting w/O-Ring in the base of power unit pump next to the lever operated release valve. **IT IS NOT NECESSARY TO USE TEFLON TAPE ON O-RING FITTINGS.**

Attach the **1800MM hose** to the fitting on the power unit. Attach the other end of the **1800MM hose** to outside fitting in main side track.

Place a funnel into vent cap hole and fill the tank with one of the following fluids: **AW-32 or ISO-32 hydraulic oil. Mobile DTE 24, or Texaco HD 32 DO NOT USE DEXRON® IN THIS LIFT!** This tank will hold approximately 10L

Relocating or changing components may cause problems. Each component in the system must be compatible; an undersized or restricted line will cause a drop in pressure. All valve, pump, and hose connections should be sealed and/or capped until just before use. All parts should be supplied from manufacture. Air hoses can be used

to clean fittings and other components. However, the air supply must be filtered and dry to prevent contamination. **Most important -cleanliness** -contamination is the most frequent cause of malfunction or failure of hydraulic equipment.

Check Pulley Cover and Lock Collars: Before proceeding, double check to make sure the locking shaft collars for the crossrail cable pulleys are tight and secure. Check the pulley cover (2-RIGHT and 2 LEFT) over the shaft located on the pulley side of each crossrail. CHECK the pulley and cover are firm against the locking shaft collar already in place. Check the additional lock collar on the outside of the shaft is tight and secure. To prevent personal injury or death, crossrail lock collars must be tight. If they are ever removed -always make sure the locking shaft collars are tight and secure.

Check the crossrail locking assembly before use. Make sure all bolts and collars are tight. The assembly is pre-installed from the factory but parts may come loose during shipping.

After installation is completed, before start up, be sure to inspect and tighten all bolts.

Start Up: Make sure power unit reservoir is full with 10L of 10-wt hydraulic oil and spray the inside of the columns where the slide blocks glide with a light lubricant.

Initial Operation: Press the UP SWITCH on the power unit. Raise the lift slowly until all the slack in the cables is taken out. Raise the lift until the safety latch closest to the power unit comes within 25MM to the bottom of the lowest lock position. Tighten the cable-adjusting nut on top of each leg cap until all remaining safety latches come within 25MM to the bottom of the lowest lock position. If cables are adjusted evenly the lift should be raising level and all four safety latches engage or audibly click simultaneously.

IF LIFT DOES NOT RISE: Check hose connections. Fluid should be pumping through the hose. Check fluid level.

NOTE: There will be some initial stretching of the cables in the beginning. It will be necessary to readjust the cables a week or so after first use.

Run the lift up and down a few times to make sure that the safety latches is engaging uniformly and that the safety latch release is functioning properly. Re-adjust if necessary.

When lowering the lift **PAY CAREFUL ATTENTION. ALWAYS** make sure that all **FOUR SAFETY LATCHES** are disengaged. If one of the latches locks on descent **STOP** immediately and raise until it is clear of the stop and adjust the hemin on that latch.

Install the approach ramps on the entry side of the lift. Drive a vehicle onto the lift

tracks then install the rear wheel chocks. Run the lift up and down a few times to insure that the latches are engaging uniformly and that the safety latch release is functioning properly. Re-adjust if necessary.

Run the lift up and down at least three times, before putting a vehicle on it for the first time. This is to bleed the air out of the cylinder and power unit.

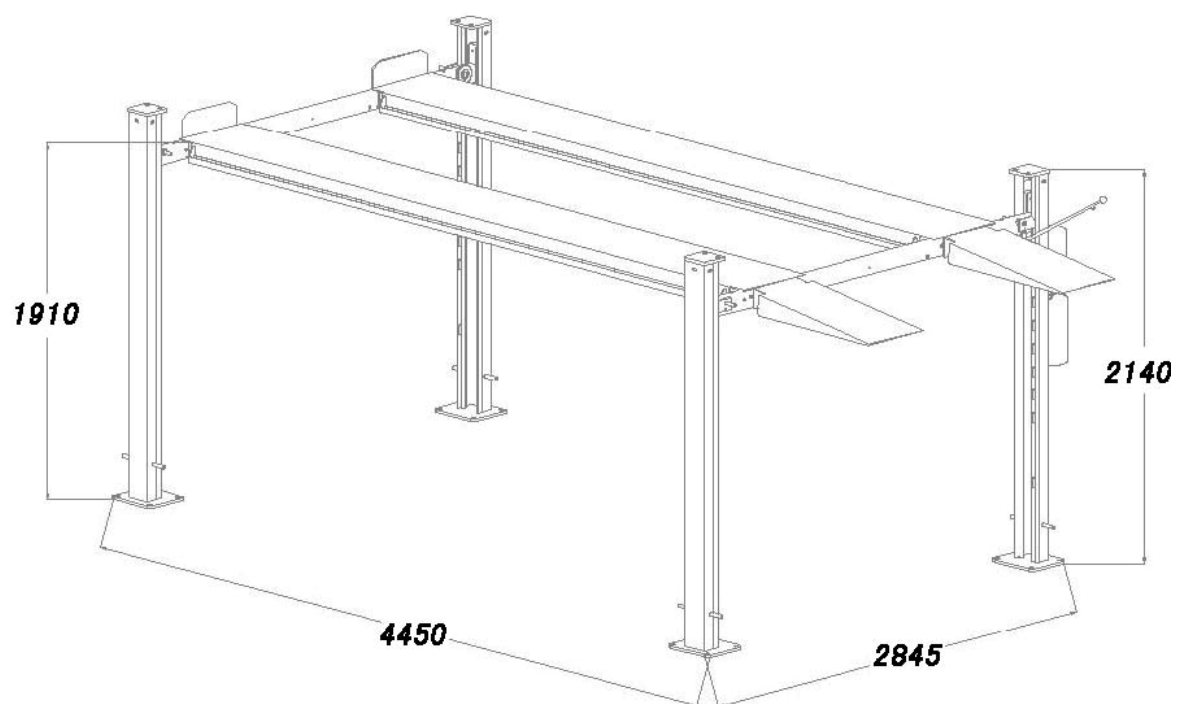
OPERATION Do not use this lift unless you know the proper operation of the lift and its safety devices, and the hazards involved. See Safety Instructions page 2 and 3.

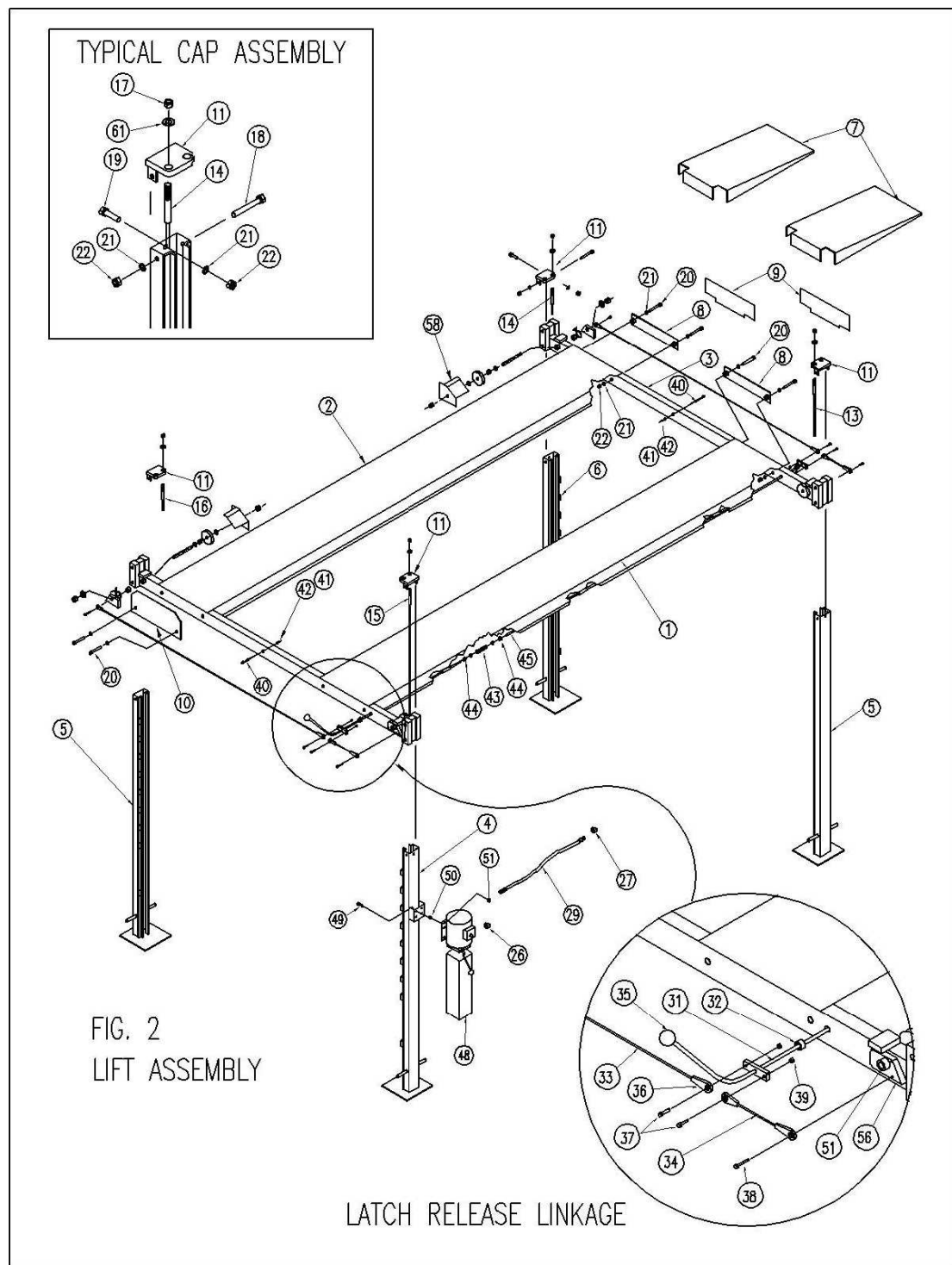
- 1 Drive the vehicle onto lift platform. Set the vehicle's parking brake and leave the transmission in park / gear. Chock the vehicle's wheels.
- 2 Stand clear -Push the top UP button to raise vehicle to desired height. Push the rod handle on the power unit to open release valve and lower tracks until it stops, check the all four latches for full engagement in the rack on each leg.
- 3 To lower – push UP button to raise – rotate latch release rod handle and hold -push rod handle on power unit to lower. Warning: Make sure all four latches release – if not STOP, raise higher until latch is clear, if it does not work now the hemin -tie rod end on that latch needs adjustment.
- 4 Any hydraulic oil leakage, unusual noise, or excessive wear must be fixed before using lift.

PRE OPERATION CHECK The user should perform daily check. *ATTENTION! LOOK OUT!* Daily check of safety latch system is very important -the discovery of device failure before needed could save you from expensive property damage, lost production time, serious personal injury and even death.

- 1 Check safety latches for free movement and *full engagement with rack*.
- 2 Check hydraulic connections, and hoses for leakage.
- 3 Check cables for damage and that they are in the groove on cable sheave.
- 4 Check lock collars at all rollers and sheaves.
- 5 Check bolts, nuts, and screws and tighten.
- 6 Check wiring & switches for damage.
- 7 Keep base plate free of dirt, grease or any other corrosive substances.

Fig 1





ITEM	DESCRIPTION	QTY
1	MAINSIDE TRACK	1
2	OFFSIDE TRACK	1
3	CROSSRAIL	2
4	COLUMN POWER UNIT BRKT	1
5	COLUMN - LEFT RACK	2
6	COLUMN - RIGHT RACK	1
7	RAMP	2
8	RAMP BRACKET	2
9	REAR WHEEL STOP	2
10	FRONT WHEEL STOP	2
11	LEG CAP - LEFT HOLE	2
12	LEG CAP - RIGHT HOLE	2
13	CABLE - SHORT	1
14	CABLE - MEDIUM	1
15	CABLE - LONG	1
16	CABLE - X-LONG	1
17	M18 NYLOCK NUT	4
18	HEX BOLT M12X170	4
19	HEX BOLT M12X30	4
20	HEX BOLT M12X100	8
21	FLAT WASHER D12	16
22	NYLOCK NUT M12	16
23	D24 FLAT WASHER	1
24	M24 NYLOCK NUT	1
25	3/8 , MNPT VENT PLUG	1
26	90 DEGREE O-RING FITTING	1
27	90 DEGREE W/NUT-NO O-RING	1
28	90 DEGREE FITTING W/PIPE THREAD	1
29	HYDRAULIC HOSE 1800MM	1
30	HYDRAULIC HOSE 2000MM	1

ITEM	DESCRIPTION	QTY
31	HANDLE & ROD SAFETY LATCH	1
32	SPACER	1
33	LONG LINKAGE ROD	2
34	SHORT LINKAGE ROD	1
35	KNOB	2
36	HIMEN ROD END M6 BORE	1
37	M6X30-IN HANDLE	2
38	M6X45	2
39	M6 NYLOCK NUT	2
40	EYE BOLT M6X100	2
41	M6 HEX NUT	2
42	M6 FLAT WASHER	2
43	M6 COUPLER UNKAGE ROD	1
44	JAM NUT M12	1
45	ROD EXTENSION	1
46	CABLE FLANGE	1
47	CABLE RETAINER	4
48	POWER UNIT	4
49	HEX BOLT M8X25	4
50	NYLOCK NUT M8	8
51	HEX NUT M8	16

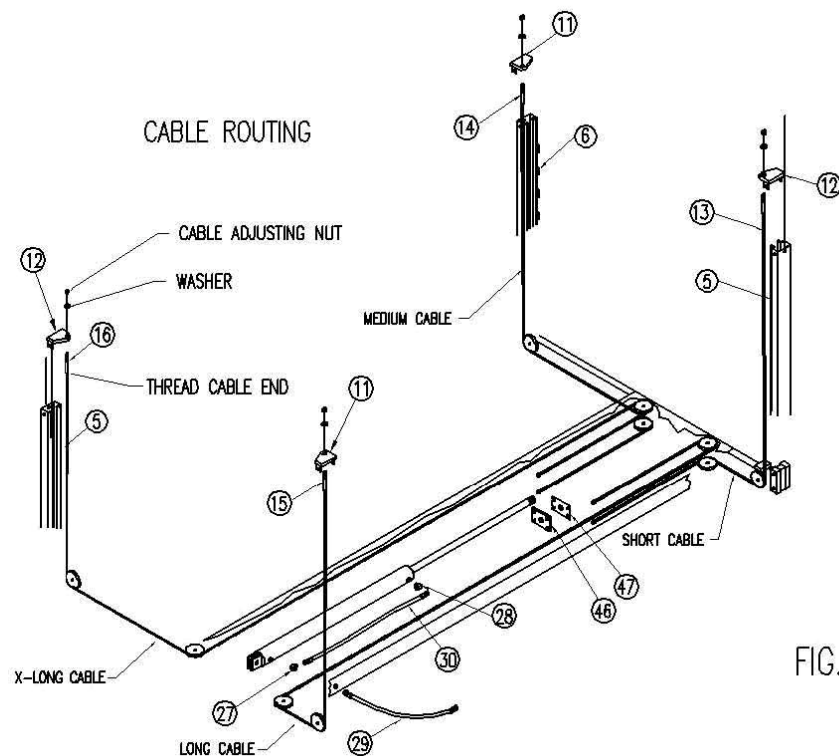


FIG. 3